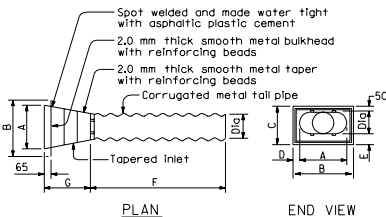


Bulkhead and taper of same thickness as tall pipe with 2.0 mm maximum. Tall pipe of same thickness as downdrain pipe.

**ENTRANCE TAPER - TYPE I
ALTERNATIVE A**



Tall pipe of same thickness as downdrain pipe.

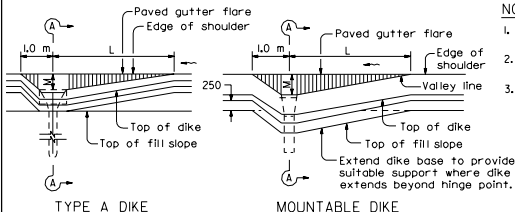
**ENTRANCE TAPER - TYPE I
ALTERNATIVE B**

CMP dimensions as tabulated below

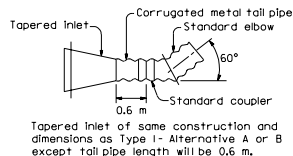
P (mm)	250	375	450	525	675
Q (mm)	200	300	375	450	600

Slip joint to be same thickness as downdrain pipe.

DIA (mm)	MIN L (mm)	M (mm)	N (mm)
200	3	450	200
300	5	500	300
375	8	600	375
450	9	750	400
600	12	900	450



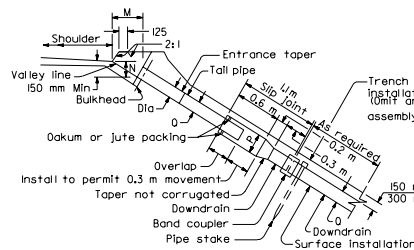
**PLAN
TYPE I**



Taper joints may be welded or riveted. Dimensions to be as tabulated below for Type I Alternatives A and B.

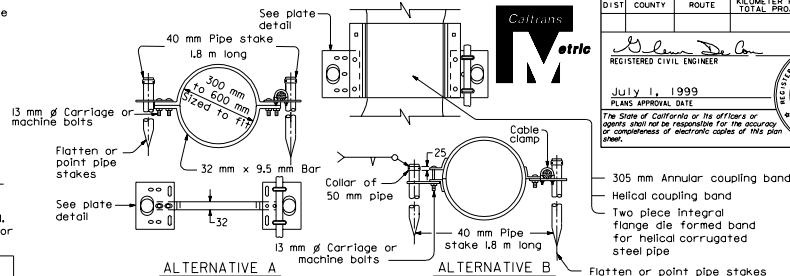
DIA (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
200	410	650	380	120	130	1.8	0.6
300	460	650	485	95	135	1.8	0.6
375	540	770	585	115	160	1.8	0.6
450	610	860	685	125	185	1.8	0.6
600	870	1170	890	150	240	1.2	1.2

**ENTRANCE TAPER - TYPE I
ALTERNATIVE A AND B**



NOTE

1. Cable, slip joint or anchor assembly to be used when specified.
2. Slip joint to be omitted when completely buried.
3. Slip joint for Type I entrance taper shown, Type 2 similar.

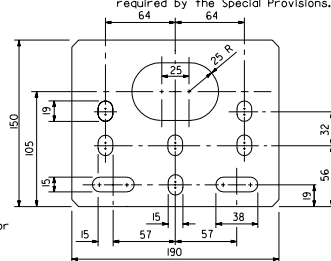


**CORRUATED METAL PIPE DOWNRAIN
ANCHOR ASSEMBLY**

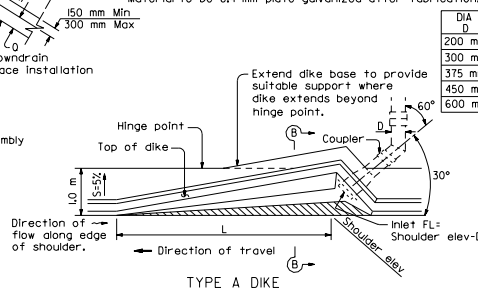
Cable and cable clamps to be used when required by the Special Provisions.

NOTES

1. All hardware to be galvanized after fabrication. All pipe stakes to be either galvanized after fabrication, or be fabricated from pre-galvanized pipe. If pre-galvanized pipe is used, weld areas shall be cleaned, and painted with zinc-rich primer.
2. Either Alternative A or Alternative B anchor assemblies and pipe stakes may be used at Contractor's option for corrugated steel pipe or corrugated aluminum pipe. Alternative A anchor assembly only to be placed in annular corrugation. Alternative A anchor assembly may be placed on annular coupling band if securely fastened on downstream side of joint. Alternative B anchor assembly to be fastened to pipe sections and not to a band coupler used to join sections.
3. For cable anchorage system details, see Standard Plan D87C.

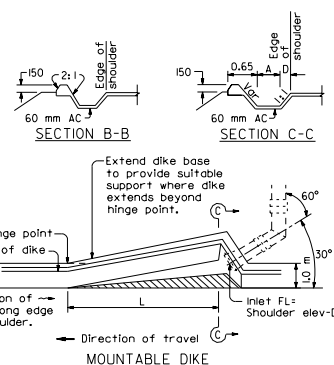


Material to be 6.4 mm plate galvanized after fabrication.



**PLAN
TYPE 2**

(For use on full freeway sections ONLY with grades OF 2% or greater.)



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**CORRUATED METAL PIPE
DOWNRAIN DETAILS**

NO SCALE

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

D87A